

WHAT IS CLAIMED IS:

1. A method of initiating oxygen scavenging in a packaging article comprising an oxygen scavenging polymer, comprising:
 - 5 providing the packaging article comprising the oxygen scavenging polymer, wherein the packaging article comprises an interior surface and an exterior surface; wetting the interior surface of the packaging article with a solution comprising a peroxide, to result in a packaging article with a wetted surface; and
 - 10 exposing the wetted surface to an initiating factor, to initiate oxygen scavenging by the packaging article.
2. The method of claim 1, wherein the oxygen scavenging polymer comprises a polymeric backbone and at least one cyclic olefinic pendant group.
- 15 3. The method of claim 2, wherein the polymeric backbone is ethylenic, and the cyclic olefinic pendant group has the structure (I):
- 20 wherein q₁, q₂, q₃, q₄, and r are independently selected from hydrogen, methyl, or ethyl; m is -(CH₂)_n-, wherein n is an integer from 0 to 4, inclusive; and, when r is hydrogen, at least one of q₁, q₂, q₃, and q₄ is also hydrogen.
- 25 4. The method of claim 3, wherein the oxygen scavenging polymer is ethylene/vinyl cyclohexene copolymer (EVCH).

5. The method of claim 3, wherein the oxygen scavenging polymer further comprises at least one linking group linking the backbone with the pendant group.

6. The method of claim 5, wherein the linking group is selected from

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-O-(CHR)_n-; -(C=O)-O-(CHR)_n-; -NH-(CHR)_n-; -O-(C=O)-(CHR)_n-;
-(C=O)-NH-(CHR)_n-; or -(C=O)-O-CHOH-CH₂-O-;

10 wherein R is hydrogen, methyl, ethyl, propyl, or butyl; and n is an integer from 1 to 12, inclusive;

15 7. The method of claim 6, wherein the oxygen scavenging polymer is selected from ethylene/methyl acrylate/cyclohexenyl methyl acrylate terpolymer (EMCM) or cyclohexenylmethyl acrylate (CHAA) homopolymer.

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8. The method of claim 1, wherein the peroxide is hydrogen peroxide.

9. The method of claim 8, wherein the solution comprises at least about 0.5% hydrogen peroxide.

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10. The method of claim 9, wherein the solution comprises at least about 30% hydrogen peroxide.

25 11. The method of claim 1, wherein the wetted surface is the interior surface.

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12. The method of claim 1, wherein the initiating factor is ultraviolet light.

13. The method of claim 12, wherein the ultraviolet light has a wavelength of about 254 nm.

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14. The method of claim 12, wherein the ultraviolet light has a wavelength between about 254 nm and about 400 nm.
15. The method of claim 13, wherein the ultraviolet light is provided at a dosage of at least about 100 mJ/cm².
- 5 16. The method of claim 15, wherein the ultraviolet light is provided at a dosage of at least about 800 mJ/cm².
- 10 17. The method of claim 12, wherein the exposing step is performed for no more than about 60 sec.
18. The method of claim 10, wherein the initiating factor is heat.
- 15 19. The method of claim 18, wherein the heat is provided to bring the wetted surface to a temperature of at least about 70°C.
20. The method of claim 1, wherein the initiating factor is heat and ultraviolet light.
- 20 21. The method of claim 1, wherein the packaging article comprises a structural layer.
22. The method of claim 21, wherein the structural layer comprises polyethylene, low density polyethylene, very low density polyethylene, ultra-low density polyethylene, high density polyethylene, polyethylene terephthalate (PET), polyvinyl chloride, ethylene-vinyl acetate, ethylene-alkyl (meth)acrylates, ethylene-(meth)acrylic acid, ethylene-(meth)acrylic acid ionomer, or paperboard.
- 25 23. The method of claim 22, wherein the structural layer comprises PET or paperboard.

24. The method of claim 22, wherein the packaging article is in the form of a bottle or a gable-top carton.
25. The method of claim 1, wherein the packaging article further comprises a transition metal catalyst.
26. The method of claim 25, wherein the transition metal catalyst is a cobalt salt, a copper salt, or a manganese salt.
- 10 27. The method of claim 26, wherein the transition metal catalyst is a cobalt salt selected from cobalt oleate, cobalt stearate, or cobalt neodecanoate.
- 15 28. The method of claim 1, wherein the packaging article comprises an oxygen barrier layer on the exterior surface and an oxygen scavenging layer that comprises the oxygen scavenging polymer.
29. The method of claim 28, wherein the wetting step comprises spraying the interior surface of the packaging article with the solution comprising the peroxide.
- 20 30. The method of claim 28, wherein the oxygen scavenging layer is a food-contact layer on the interior surface of the packaging article.
- 25 31. The method of claim 28, wherein the packaging article further comprises a food contact layer on the interior surface, and wherein the oxygen scavenging layer is located between the food contact layer and the oxygen barrier layer.
32. The method of claim 31, wherein the food contact layer comprises low density polyethylene (LDPE).
- 30 33. The method of claim 32, wherein the thickness of the food contact layer is less than about 1 mil.

34. The method of claim 28, wherein the oxygen barrier layer comprises at least one polymer selected from poly(ethylene vinyl alcohol), polyacrylonitrile, polyvinyl chloride, poly(vinylidene dichloride), polyethylene terephthalate (PET), silica, polyamides, 5 aluminum foil, or mixtures thereof.
35. The method of claim 34, wherein the polymer is PET.

By [Signature]